

PTO/SB/21 (08-00)

MODIFIED

# TRANSMITTAL FORM

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\* plus reference copies

Total Number of Pages in This Submission 7\*

Application Number 09/920,241

Filing Date 08/01/2001

First Named Inventor Pierte ROO

Group Art Unit 2631

Examiner Name M. Ghayour

Attorney Docket Number MP0088

## ENCLOSURES (check all that apply)

☐ Fee Transmittal Form **IN DUPLICATE**☐ Credit Card  
Authorization☐ Amendment / Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☒ Information Disclosure Statement with  
PTO-1449 and cited references☐ Certified Copy of Priority  
Document(s)☐ Response to Missing Parts/  
Incomplete Application☐ Response to Missing Parts  
under 37 CFR 1.52 or 1.53☐ Assignment Papers  
(for an Application)☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a  
Provisional Application☐ Associate Power of Attorney☐ Terminal Disclaimer☐ Request for Refund☐ CD, Number of CD(s) \_\_\_\_\_☐ After Allowance Communication  
to Group☐ Appeal Communication to Board  
of Appeals and Interferences☐ Appeal Communication to Group  
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☐ Other Enclosure(s) (please  
identify below):

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm  
or  
Individual nameAndrew J. Bateman  
Registration No.: 45,573

Signature

Date

07/08/2005

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 

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Signature

Date

MP0088



Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
Pierle ROO ) Examiner: M. Ghayour  
)  
Application No.: 09/920,241 ) Group Art Unit: 2631  
)  
Filed: August 1, 2001 )  
)  
For: APPARATUS AND METHOD FOR )  
CONVERTING SINGLE-ENDED SIGNALS TO A )  
DIFFERENTIAL SIGNAL, AND TRANSCEIVER )  
EMPLOYING SAME ) Date: June 8, 2005

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 CFR § 1.56 and in accordance with the practice under 37 CFR §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed PTO-1449 and to the attached copies of any non-U.S. patent documents listed thereon.

In accordance with 37 CFR § 1.97(h), this Information Disclosure Statement is not to be construed as an admission that the information cited is or is considered to be material to patentability as defined in 37 CFR § 1.56(b), nor as an admission that the information constitutes prior art within the meaning of 35 USC §§ 102 and/or 103.

It is respectfully requested that the information listed on the PTO-1449 be considered by the Examiner, and that an initialed copy of the PTO-1449 be returned indicating that such information was considered.

No fee is believed necessary for the submission of this Information Disclosure Statement.

Should the Examiner have any questions, Applicant's undersigned attorney is reachable by telephone in our Washington, D.C. office at (202) 625-3547. The correspondence address of record is provided below.

Respectfully submitted,

IP Docket  
Katten Muchin Rosenman, LLP  
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KATTEN MUCHIN ROSENMAN, LLP

By: Andrew J. Bateman  
Andrew J. Bateman  
Registration No. 45,573

ATTORNEY DOCKET NO.

APPLICATION NO.

MP0088

09/920,241

**LIST OF REFERENCES CITED BY APPLICANT**

APPLICANT

Pierte ROO

DATE SUBMITTED TO USPTO: July 8, 2005

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GROUP

08/01/2001

2631

**FOREIGN PATENT DOCUMENTS**

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION OR ABSTRACT
	DE 10 2004 017 497	11/2004	GERMANY			Abstract
	EP 0 800 278	08/1997	EUROPE			
	JP 57-48827	3/1982	JAPAN			Abstract
	JP 204527	8/1989	JAPAN			Abstract
	TW 0545016	08/01/2003	TAIWAN			Abstract
	TW 0512608	12/01/2002	TAIWAN			Abstract
	TW 0497334	08/01/2002	TAIWAN			Abstract
	JP 10-126183	05/15/1998	JAPAN			Abstract
	JP 3-273704	12/04/1991	JAPAN			Abstract
	JP 4-293306	10/16/1992	JAPAN			Abstract
	JP 4-351109	12/04/1992	JAPAN			Abstract
	JP 58-111415	07/02/1983	JAPAN			Abstract
	JP 7-131260	05/19/1995	JAPAN			Abstract
	WO 00/28712	5/00	PCT			
	WO 00/28668	5/00	PCT			
	WO 00/28663	5/00	PCT			
	WO 00/27079	5/00	PCT			
	WO 00/35094	6/00	PCT			
	WO 00/28691	5/00	PCT			

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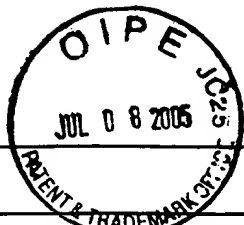
**U.S. PATENT DOCUMENTS**

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	2002/0136321	09/2002	CHAN			
	2003/0002570	01/2003	CHAN			
	2004/0005015	01/2004	CHAN			
	2004/0090981	05/2004	LIN, et al.			
	2004/0091071	05/2004	LIN, et al.			
	2004/0105504	06/2004	CHAN			
	2005/0025266	02/2005	CHAN			
	60/106,265	10/30/1998	CHAN			
	4,131,767	12/1978	WEINSTEIN			
	5,323,157	06/1994	LEDZIUS, et al.			
	6,185,263	02/2001	CHAN			
	6,259,680	07/2001	BLACKWELL, et al.			
	6,259,745	07/2001	CHAN			
	6,373,908	04/2002	CHAN			
	6,389,077	05/2002	CHAN			
	6,411,647	06/2002	CHAN			
	6,509,857	01/2003	NAKAO			
	6,594,304	07/2003	CHAN			
	6,690,742	02/2004	CHAN			
	6,744,831	06/2004	CHAN			
	6,188,282	02/01	MONTALVO			
	6,204,788	03/2001	TANI			
	6,236,346	05/2001	SCHOFIELD			
	6,775,529	08/2004	ROO			
	5,175,764	12/1992	PATEL, et al.			

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,746,903	05/1988	CZARNIAK, et al.			
	5,043,730	08/1991	OBINNATA			
	5,465,272	11/95	SMITH			
	5,471,665	11/95	PACE, et al.			
	5,489,873	02/96	KAMATA, et al.			
	5,508,656	04/96	JAFFARD, et al.			
	5,517,141	05/96	ABDI, et al.			
	5,539,405	07/1996	NORSWORTHY			
	5,572,158	11/96	LEE, et al.			
	5,585,795	12/1996	YUASA, et al.			
	5,587,681	12/96	FOBBESTER			
	5,648,738	07/97	WELLAND, et al.			
	5,663,728	09/1997	ESSENWANGER			
	5,757,219	05/98	WEEDON, et al.			
	5,760,726	06/1998	KOIFMAN, et al.			
	5,798,664	08/98	NAGAHORI, et al.			
	5,844,439	12/98	ZORTEA			
	5,880,615	03/99	BAZES			
	5,940,442	08/99	WONG, et al.			
	6,043,766	03/00	HEE, et al.			
	6,044,489	03/00	HEE, et al.			
	6,121,831	09/00	MACK			
	6,140,857	10/00	BAZES			
	6,148,025	11/00	SHIRANI, et al.			
	6,163,283	12/2000	SCHOFIELD			

EXAMINER

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GROUP

08/01/2001

2631

**OTHER DOCUMENTS (Including author, title, date, pertinent pages, etc.)**

Bertolaccini, Mario, et al., "A Precision Baseband Offset and Drift Corrector for Low-Frequency Applications, IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, Vol. IM-34, No. 3, September, 1985, pp. 405-412.

Everitt, James, et al., "A CMOS Transceiver for 10-Mb/s and 100-Mb/s Ethernet," IEEE JOURNAL OF SOLID-STATE CIRCUITS, Vol. 33, No. 12, December 1998, pp. 2169-2177.

Kelly, N. Patrick, et al., "WA 18.5 - A Mixed-Signal DFE/FFE Receiver for 100Base-TX Applications," ISSCC 2000/SESSION 18/WIRELINE COMMUNICATIONS/PAPER WA 18.5, 2000 IEEE International Solid-State Circuits Conference, pp. 310-311.

Song, Bang-Sup, et al., "FP 12.1: NRZ Timing Recovery Technique for Band-Limited Channels," ISSCC 96/SESSION 12/SERIAL DATA COMMUNICATIONS/PAPER FP 12.1, 1996 IEEE International Solid State Circuits Conference pp. 194-196.

LINEAR TECHNOLOGY, High Speed Modem Solutions, InfoCard 20, Linear Technology Corporation.

LINEAR TECHNOLOGY, LT1355/LT1356, Dual and Quad 12MHz, 400V/us Op Amps, Linear Technology Corporation, pp. 1-16.

LINEAR TECHNOLOGY, LT1358/LT1359, Dual and Quad 25MHz, 600V/us Op Amps, Linear Technology Corporation, pp. 1-12.

LINEAR TECHNOLOGY, LT1361/LT1362, Dual and Quad 50MHz, 800V/us Op Amps, Linear Technology Corporation, pp. 1-12.

LINEAR TECHNOLOGY, LT1364/LT1365, Dual and Quad 70MHz, 1000V/us Op Amps, Linear Technology Corporation, pp. 1-12.

LINEAR TECHNOLOGY, LT1813/LT1814, Dual/Quad 3mA, 100MHz, 750V/us Operational Amplifiers, Linear Technology Corporation, pp. 1-16.

Yamaguchi, et al., "400Mbit/s Submarine Optical Repeater Using Integrated Circuits," Fujitsu Laboratories Ltd. and ENGLISH LANGUAGE TRANSLATION

Uda, et al., "125Mbit/s Fiber Optic Transmitter/Receiver with Duplex Connector", Fiber Optic Communications Development Div., NEC Corporation, NEC Engineering, Ltd. and ENGLISH LANGUAGE TRANSLATION

Mueller, K.H., "Combining Echo Cancellation and Decision Feedback Equalization," THE BELL SYSTEM TECHNICAL JOURNAL, Vol. 58, No. 2, February 1979, pp. 491-500.

Goldberg, Lee, "Gigabit Ethernet PHY Chip Sets LAN Speed Record for CopperStory," TECH INSIGHTS, November 16, 1998.

IEEE STANDARDS 802.3ab-2002, "Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications", pp. 147-249

EXAMINER

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U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,275,098	08/01	UEHARA, et al.			
	6,288,604	11/01	SHIH, et al.			
	6,433,608	08/02	HUANG			
	6,509,857	01/2003	NAKAO			
	6,882,216	04/05	KANG			
	2002/0181601	12/02	HUANG, et al.			
	5,940,498	08/1999	BARDL			
	2004/0208312	10/2004	OKUDA			
	6,687,286	02/03/2004	LEONOWICH, et al.			
	6,477,200	11/05/2002	AGAZZI, et al.			
	2004/0105504	06/03/2004	CHAN			
	4,362,909	12/1982	SNIJDERS, et al.			
	4,727,566	02/1988	DAHLQVIST			
	4,888,762	12/1989	ARAI			
	4,935,919	06/1990	HIRAGUCHI			
	4,999,830	03/1991	AGAZZI			
	5,222,084	06/1993	TAKAHASHI			
	5,305,379	04/1994	TAKEUCHI			
	5,596,439	01/1997	DANKBERG, et al.			

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